

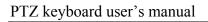
User's Manual

KEYBPTZ3DPJ PTZ control keyboard KEYBPTZ3DPJ-LAN PTZ network keyboard

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Welcome

Thank you for purchasing our keyboard!

This operating manual is designed to be a reference tool for the operation of your keyboard. Here you can find information about this keyboard features and functions, as well as a detailed menu tree.

Before operation, please read the following safeguards and warnings carefully!

Important safeguarding and warnings

All installation and operation should conform to your local electrical safety codes.

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation

All the examination and repair should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

1 Features and Specification

1.1Features

This series keyboard has the following features

- One keyboard can control multiple DVRs, or you can use multiple keyboards to control one DVR.
- Support dome operation.
- Support RS485 port and RS232 port.
- Support PTZ operation via joystick
- Support all operations you get from DVR front panel function keys
- Support keyboard lock function
- Support multiple-level operation rights
- Support level-link
- Support single or multiple DVRs's menu setup
- On-screen menu, user-friendly procedure. It is very easy for you to operate

Besides above mentioned features, network keyboard also has the following features:

- can control network video server and network video decoder
- support network ports connection
- can receive DVR alarm information, support one-channel activation on alarm,
- USB port support network backup DVR video data.

1.2 Specification

Working Temperature 0°C-+55 °C **Weight** 2.5Kg

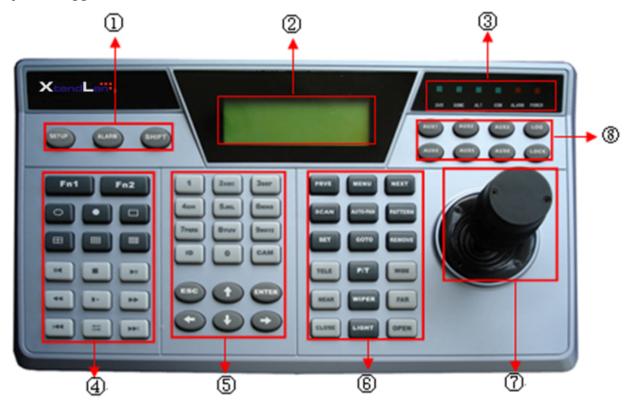
Dimension 320mmx190mmx50mm

(Includes joystick height 100mm)

Working Power 12VDC 1200mA LCD Dimension 84mm x 31 mm

2 Keyboard function

2.1 Keyboard appearance



- ① Function key: There are three function keys: SETUP/ALARM/SHIFT
- ② LCD: Here is to display on-screen menu.
- 3 Indicator light: There are six indicator lights. DVR/DOME/ALT/COM/ALARM/POWER
- ④ DVR function: Here are operation keys for you to control DVR.
- ⑤ Public function: Here includes ten numeral keys, four direction keys, ESC/ENTER and ID/CAM.
- **6** Dome matrix function: Here are operation keys for you to control dome or matrix.
- Joystick
- ® Assistant function: from AUX1 to AUX 6, log and lock key.

2.2 Key function list

2.2 Key 1	unction list				
Serial number	Name	Symbol	l Function		
			Shortcut key to enter function setup menu		
key	Alarm	ALARM	Shortcut key to enter alarm setup menu		
	Shift	SHIFT	Switch between input methods		
LCD	Liquid crystal displayer		Display on-screen menu		
Indicate light	DVR indicate DVR light		Light turns on when connected with DVR		
	Dome indicate light	DOME	Light turns on when connected with dome		
	Other indicate light	ALT	Light turns on when connected with other devices		
	Serial port indicate light		Light turns on when connected with serial port device		
	Alarm indicate lig	ALARM	Light turns on when connected with alarm devices		
	Power indicator light	POWER	Light turns on when keyboard connected with power and works properly.		
DVR	<u> </u>		In single surveillance mode, click Fn1 to display PTZ and		
function k	Assistant function	Г 1	image color setup menu.		
	key	Fn1	In dynamic detection zone setup, working with other keys		
	,		When playback, click Fn1 to display or hide process bar.		
	DVR assistant function key 2	Fn2	In DVR menu, switch input method.		
}	Tour	V	Activate tour function		
	Single window		Single window display mode		
	display mode		Single window display mode		
	Four window display mode		Turn to four window display mode		
	Nine window display mode		Turn to nine window display mode		
	Sixteen window display mode		Turn to sixteen window display mode		
	Record	•	Record/play		
	Backward/Pause	II / ◀	Video backward play or pause		
	Play frame by fra	\rightarrow	Play video frame by frame		
	Play/Pause	▶II	Play/pause When DVR is in real-time surveillance mode, system goes video search menu,.		
}	Fast backward	4	Fast backward playback		
}	Slow play	*	Various slow play speeds		
}	Fast forward	}	Various fast play speeds		
}	Previous		Play the previous video		
}	Next	₩	Play next video		
	Backward play frame by frame	<i>←</i>	Backward play frame by frame		
	manic of manic				

Public	Character and	0-9	Switch between numeral/characters, click Shift to switch.		
function	numerals				
	Device ID	ID	Shortcut key to go to ID control point search		
	Device channel number	CAM	Control DVR channel.		
·	Cancel		Cancel current operation		
	ESC		In playback mode, click this key to go back to dynamic surveillance.		
	Confirm	ENTER	Confirm current operation		
	Direction keys	EIVIER	In single surveillance mode, click up/down to switch between		
	Birection Reys	1 up	various channels.		
			Modify numeral number		
			Modify setup		
			PTZ control switch		
			In dynamic surveillance mode, click left/right key to switch		
		← left	between single window display and multiple window		
		⇒right	Display mode.		
			PTZ control switch		
	Previous page	PREV	Previous page		
Dome/	Dome menu	MENU	Enter dome menu shortcut key when control dome.		
	Next page	NEXT	Working with dome menu		
function	Scan	SCAN	System pops up scan menu		
10,110,010,11	Tour	AUTO-PAN	System pops up auto tour menu		
	Pattern	PATTERN	System pops up pattern menu		
	Set preset	SET	System pops up preset setup menu		
	GOTO preset	GOTO	System pops up go to preset menu		
	Remove preset	REMOVE	System pops up delete preset menu		
	Iris zoom in	TELE	PTZ iris zoom in		
	PTZ	P/T	PTZ operation shortcut key		
	Iris zoom out	WIDE	PTZ iris zoom out		
	Focus zoom in	NEAR	PTZ focus zoom in		
	Water brush	WIPER	Shortcut key to control dome water brush		
	Focus zoom out	FAR	PTZ focus zoom out		
	Lens zoom out	CLOSE	PTZ lens zoom out		
	Lens zoom in	OPEN	PTZ lens zoom in		
	Light	LIGHT	Control dome light		
	Joystick	DIGITI	Assistant menu and function key operation.		
Assistant	AUX1-AUX6		Assistant key Assistant key		
function	LOG	LOG	Shortcut key to search log file		
key	LOCK	LOCK	Shortcut key to lock keyboard		
	LOCK	LUCK	Shortcut key to lock keyodatu		

2.3 Keyboard ports



- 1. RJ45
- 2. USB port
- 3. IR
- 4. RS485
- 5. RS232
- 6. power supply port

Note: RJ45, USB and IR only apply to KEYBPTZ3DPJ-LAN network keyboard.

2.4 Port specification

RS232 port can directly connect with DVR. The distance should be within 10m.

One RS232 port could only connect with one DVR. You must use RS485->RS232 converters to connect more DVRs.

RS-485 transmission distance is 1200 m (9600bps), max 3000 m.

In level-link mode, one RS-485 port can connect with as many as 16 keyboards.

You connect RJ45 with DVR and realize front device multiplex control via the central management software.

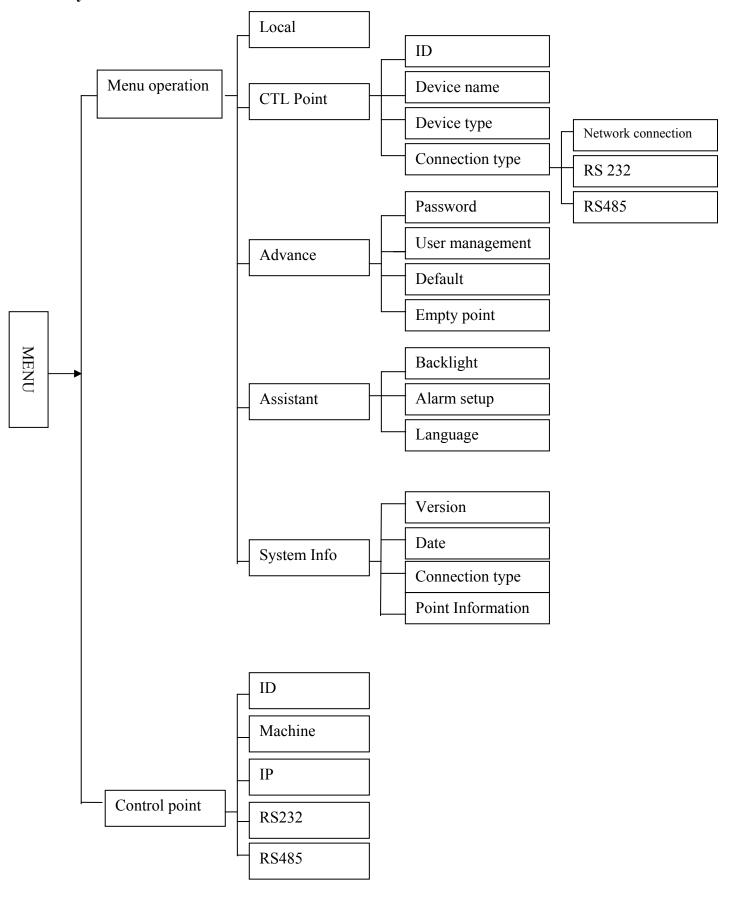
2.5 Power

The keyboard use +12V DC, you can use +12V adaptor included in the accessories package.



3 Menu tree

3.1 Key board menu tree



3.2 Input method

Click SHIFT, you can switch between numeral/capitalized character/small character.

- ①: Numeral
- A: Capitalized character
- @ Small character

3.3 Log in

Plug in power socket, power indicate light is on and LCD shows welcome message.

Network keyboard 2006-12-20 14.00.00

Click Enter or SETUP, system pops up a dialogue box. Now you can input user name and password.

The default user is admin, password is 888888.

User name:	
Password:	

4 Menu operation

Menu operation includes five items:

- Local setup
- CTL point
- Advance
- Assistant
- System information

4.1 Local setup

Local setup includes the following items

- Network setup
- Time setup
- Address setup

4.1.1 Network setup (only for network keyboard KEYBPTZ3DPJ-LAN)

Network setup is for you to input the following information.

- IP
- Sub mask
- Net gate
- Port

You can use left/right key to highlight corresponding location and then input numeral.

IP ADD: 192.168.000.118
Sub Mask: 255.255.255.000
Net Gate: 192.168.000.001

Port:: 377

4.1.2 Time setup

Here is for you to input local device time. Move the cursor to highlight corresponding position and then input the numeral.

YY: 2006 Mo: 12 DD31 HH: 14 MI: 13 SE: 22

4.1.3 Address setup

Address value ranges from 0 to 255. Default factory setup is 0.

When in level-ling mode, 0 has the highest priority.

Address setting: 0

4.2 CTL Point

CTL point includes the following items:

- ID
- Device name
- Device type
- Connection type Network connection, RS232, RS485

ID:*3

Dev name: DVR-1 Dev Type: DVR

Connection type: RS232

4.2.1 ID

Here is for you to input front device ID.

Move the cursor to highlight ID and then use input numeral.

If there is a * before the ID number (such as *3), it means that front device has control point setup.

You can view device *3 corresponding type and name.

4.2.2 Device name

Here is for you to input device name. You can use various input methods to give a name to the front device.

4.2.3 Device type

There are several options: DVR/dome/matrix/NVS. You can use left/right key to select.

4.2.4 Connection type

There are several options: network/RS232/RS485. You can use left/right key to select corresponding connection type.

After you have selected connection type, please click ENTER to go on connection setup.

4.2.4.1 Network

When connection type is network, click ENTER key you can see an interface ask you to input the following information

- IP
- Port
- Protocol

IP: 000.000.000.000

Port::00000 Protocol: DH--1

4.2.4.2 RS232

When connection type is RS232, click ENTER key you can see an interface ask you to input the following information

- 232ADD
- PRTCL
- Baud
- D-bit

- O E VFY
- S-bit

232ADD: PRTCL:

Baud:

D-bit:

O_E VFY:

S-Bit:

4.2.4.3 RS485

When connection type is RS485, click ENTER key you can see an interface ask you to input the following information

- 232ADD
- PRTCL
- Baud
- D-bit
- O E VFY
- S-bit

485ADD:

PRTCL:

Baud: 300

D-bit: 8

O_E VFY: None

S-Bit: 1

Note:

All the setup here should conform to you current connection type.

If you input connection type is RS232, you front device should connect with keyboard via RS 232 port. Otherwise you can not use keyboard to control current device!

All listed items here should not leave in blank, otherwise you can not use fast search function. After all the setup, click ESC to exit, system prompt you to save current setting.

Save current setup?

YES: ENTER NO: ESC

4.3 Advance

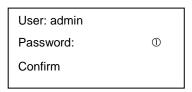
4.3.1 Password

Here is for you to modify password.

We recommend you input a six characters password including numeral and characters.

Administrator can modify password for all users.

Ordinary user can only modify login account password.



4.3.2 User management

User management is for administrator only.

Administrator can add, delete or modify user, set power for each user.

Ordinary user can only modify its own password and operate all functions within power setting limit. Guest can not operate functions. He can only review DVR video or check version information.

Add user
Delete user
Power setting

4.3.2.1 Add user

Here is for you to add a new user. You can input new user name and password.

Move the cursor to highlight Pwer, please use left key to modify user property (User/guest) and then use right key to highlight user power and click Enter to confirm. You can see there is an icon ● after your option.

- Pan ctrl
- System
- BAK
- Senior

User Password Confirm Pwer:User ①

4.3.2.2 Delete user

You can select corresponding user and then click ENTER to delete.

4.3.2.3 Power setting

Here you can select power for each user.

Use left and right key to highlight correspond right and click ENTER to confirm..

Icon O means current user does not have this right

Icon ● means current user has current right.

In the following image, current user is 1 and this account can operate Pan Ctrl and system function, BAK and senior right is disabled.

User:1	Pan Ctrl	•
Pwer:User	System	•
	BAK	0
	Senior	0

4.3.3 Set local as default

Here is for you to restore factory default setup.

Note: when you operate this function, please be careful!

Set Local as Default?

Yes: ENTER No: Esc

4.3.4 Empty control points

Here is for you to delete all control point information. Click ENTER to clear all.

Clear ALL CTL Point?

Yes: ENTER No: Esc

4.3.5 Assistant setup

Assistant setup includes the following items:

Back light: ON

Alarm: ON

Language: English

4.3.6 Backlight setup

You can open LCD backlight. It will last for ten minutes. When you log in the next time, backlight automatically turns on

4.3.7 Alarm setup

You can turn on alarm function.

4.3.8 Language

There are three options: English/Simplified Chinese/Traditional Chinese.

4.4 System information

System information includes the following items.

- Version: here is to display system version.(for reference only)
- Date: here is to display system released date(for reference only)
- Connection type: here is to display current connection type.
 You can click ENTER to view type (serial port or network)
- Point information

Version: 1.10

Date: 2006-12-29

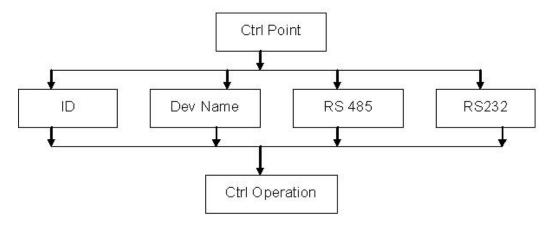
Connection type: Network

Point Info: 0

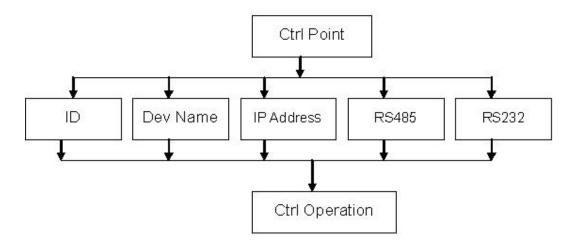
4.4.1 Search point

You can input either of the following information to search one device. System can automatically connect with that device and you can use keyboard to control it.

For control keyboard:



For network keyboard



You can click ENTER to go to the above menu and then input corresponding property to search. E.g.: If you want to search a device of ID3. Input ID as 3 and then click ENTER to confirm. System pops up the following interface, ID 3 is a dome and its RS232 address is 3. System automatically connects the dome. Now you can use keyboard to control current dome.

Current Dev: Dome

RS232:3

ID: 3

Note: when you use keyboard to control DVR, please click ID and then click ESC to go back to previous menu. When you use keyboard to control other device, click ESC to go back to previous menu.

5 Control point

Control point includes the following items.

- ID
- Machine name
- IP address
- RS232
- RS485

ID

Machine

ΙP

RS232

RS485

5.1 ID

Use left/right to highlight ID and then click ENTER. Here is for you to input device ID.

5.2 Machine name

Use left/right to highlight Machine and then click ENTER. Here is for you to input machine name.

5.3 IP address

Use left/right to highlight IP address and then click ENTER. Here is for you to input device IP address.

5.4 RS232

Use left/right to highlight RS232 and then click ENTER. Here is for you to input RS 232 address.

5.5 RS485

Use left/right key to highlight RS485 and then click ENTER. Here is for you to input RS485 address.

6 Control DVR using keyboard

6.1 Serial port connection

6.1.1 RS232 serial port connection

Use one RS232 cable to connect DVR serial port and keyboard serial port together.

DVR address number ranges from 1 to 255, please refer to DVR manual for more information.

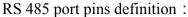


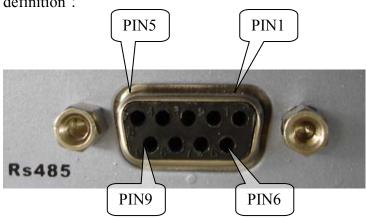
6.1.2 Via RS485 connection

One RS232 port can only connect with one DVR.

You need to use RS 485 port once you want to control more than one DVRs.

You can user one standad RS485 to RS 232 box connect with DVR 232 port.





PIN1: +5V power supply

PIN2: Alarm output

PIN3: RS485 A auto

PIN4: Blank

PIN5: GND

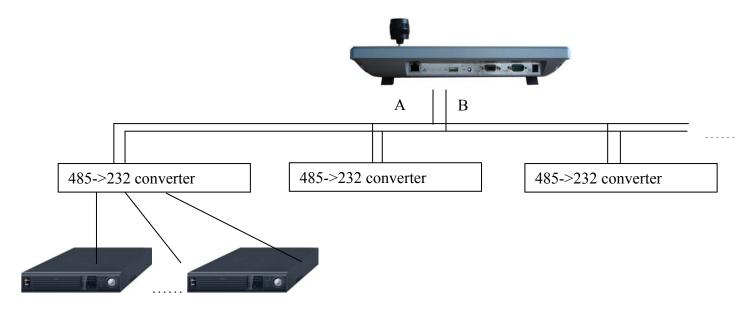
PIN6: Alarm input

PIN7: RS485 A auto

PIN8: RS485 B auto

PIN9: RS485 B auto

RS485 connection via converter



One 485 bus can connect with **thirty-two** RS485->232 converters, one RS485->232 converter can connect with **twelve** DVRs.

6.1.3 Multi-keyboard link via RS485



Multi-converter connection note:

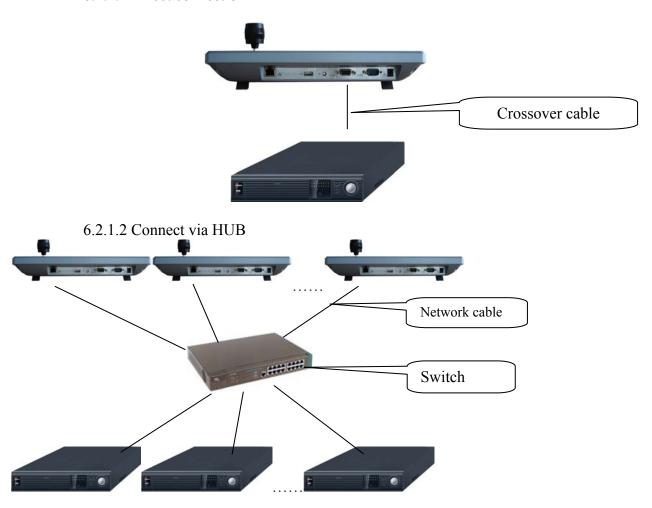
- menu serial setup should conform to the device you connected; otherwise keyboard can not control the device!

6.2 Network connection (only for network keyboard KEYBPTZ3DPJ-LAN)

Connect RJ45 port to the network to realize network control, upgrade and USB backup.

6.2.1 RJ45 port connection

6.2.1.1 Direct connection



6.3 DVR and keyboard setup

6.3.1 DVR setup

Before operation, please make sure cable connection is proper.

In DVR menu, from "setting" to RS232.

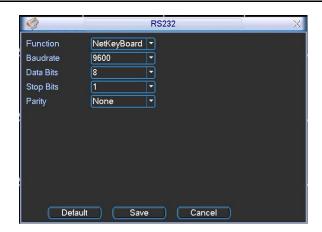
The default setup is shown as below.

Function: network keyboard

Baud rate: 9600Data bit: 8Stop bit: 1

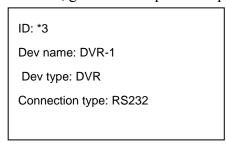
• Parity: none.

Please note keyboard setup should comfort to DVR setup.



6.3.2 Keyboard setup after serial port connection

In menu, go to control point setup. Here you need to input the following information.



• ID:

If there is a * before the ID number (such as *3), it means that front device has control point setup. You can view device *3 corresponding type and name.

• Device name:

Here is for you to give a name to the front device.

Device type

There are several selections such as DVR/Dome/CMS/NVS. You can use left/right key to select device type and then click up/down to go on setup.

Connection type

Please use up/down to highlight connection type and then use left/right to select type.

Click "ENTER" to set the following items:

- 232 address
- Parity
- Protocol
- Stop bit
- Baud rate
- Data bit

232 Add: 8 Parity: None
Protocol: DH2 Stop bit: 1
Baud rate: 9600
Data bit: 8

Note: 232 address and 485 address are corresponding DVR local number.

DH2 is network keyboard/2nd generation control keyboard protocol, its corresponding DVR serial port protocol is network keyboard protocol.

DH1 is first generation keyboard protocol, its corresponding DVR serial port is control keyboard protocol.

6.3.3 Keyboard setup after network connection

ID, device name and device type setup please refer to 6.3.2.

Use up/down to highlight connection type and then use left/right to select connection type.

Click "ENTER" to go to setup.

After all the setup, click ESC to exit. System pops up the dialogue box to prompt you save setup

CTL point IP"192.168.090.111
CTL port: 3777
Protocol"DH-2
Save data?

YES: ENTER NO: ESC

6.4 Operation

6.4.1 Login

You can use the following ways to login: ID, device name, IP, 232 address, 485 address.

Click ENTER to go to setup interface, input you information and click ENTER to begin search.

System automatically begin login if search is OK.

System pops up the alert information if there is no search result.

Note:

Before you login, please log off DVR local user menu, local user priority is higher than keyboard user!

ID 485 Add Dev name IP ADD 232 ADD

6.4.2 Logout

Click ID key and then click ESC, you can logout current control menu.

6.4.3 Record

Click record button (●) to go to recording interface. You can use direction keys to modify channel name and status. Click ENTER to save modification, click ESC to exit without saving modification you have done.

6.4.4 PTZ control and image color

In single window display mode, click Fn1, system pops up PTZ and image color menu. Or you can click P/T in the keyboard to go to DVR control menu.

6.4.5 Tour and single/multiple window switch.

Note: before click tour key, please make sure your current serial DVR support tour function.

You can click tour key (\circlearrowleft) to begin touring.

 \square , \square , \square are corresponding to :One/four/nine/sixteen window display modes.

You can click numeral key to go to corresponding channel. E.g. you can click numeral 1 to go channel one.

For channel number more than ten (such as numeral 11), you need work with CAM key.

E.g., you want to go to channel 12 then you input CAM+12+CAM.

6.4.6 Network keyboard backup (USB backup)

USB is supported only in network keyboard KEYBPTZ3DPJ-LAN. USB port allows backup operations over network.

Connect network keyboard RJ45 port with DVR as described above.

You can follow the procedure below:

- Insert external hard disk into USB port.
- After successfully login, click AUX1 in the keyboard. You can see the interface,

Date: Year: 2006 Month: 09 Day: 20
Start: H: 08 M: 30 S: 00
End: H: 17 M: 30 S: 00
Ch: 1 Type: Recording

- Date
- Start time
- > End time
- > Channel name
- ➤ Video type: recording/alarm/dynamic/card number
- After setup, please click ENTER. Network keyboard send search results to DVR.

```
NO.1-0 08:30:01 09:30:30

NO.1-1 09:30:01 10:30:00

NO.1-2 10:30:00 11:30:00

NO.1-3 11:30:00 12:30:00

NO.1-4 12:30:00 13:30:00
```

• Please use up/down to select one path to save video.

X here range from 0 to 4. Click ENTER to save video and system pops up process bar.

Download NO.X file ?
YES: ENTER, NO: ESC

If there is no USB device connected, system pops up message to alert you.

No USB device connected OK

7 Control PTZ camera using keyboard

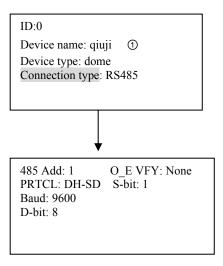
7.1 Cable connection

Please make sure keyboard AB line and dome AB line connection is right. Connect dome to power, and then connect dome video cable to the monitor. Before operating, please go to dome menu to go on setup. If dome address is 1, then keyboard RS 485 address is 1.

7.2 Keyboard setup

In keyboard menu, go to control point. Here you can input ID, device name. You can use left/right key to select device type.

Use up/down to highlight connection type, then click ENTER to go to RS 485 setup. 485 address is 1, default protocol is DH-SD. You can select in accordance with you actual demands. After all the setup, click Enter to save setup or click ESC to cancel.



7.3 Operation

Before operation please note:

- X value varies due to different protocols.
- Please use up/down to move dome operation menu.
- Use left/right to move cursor.
- All the operation here is based on **DH-SD protocol**. There may be some difference for various protocols. Is necessary to consult with camera or protocol definition.

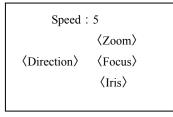
7.3.1.1 Basic operation

Now you can click ID key and input ID number to enter current device connection interface.

Current device : Dome RS485 ADD : 1 ID : 0 Click MENU, the image is shown as in the image on the right side.

The menu here should work with demo menu.

1. up	5.Previous menu
2. down	6.Next menu
3. Left	7.Confirm
4. Right	8.Exit



It is to control direction. The value ranges from one to eight. Please use the number buttons of the keyboard to input value (between 0~8) and press ENTER to confirm. (Operation here is only active with key-press. You can use joystick to control speed directly.)

7.3.2.2 PTZ movement direction

- For joystick: up/down/left/right/up left/right down/up right/left down.
- For keyboard: up/down/left/right

7.3.2.3 Zoom/focus/Iris

- Zoom: please use WIDE and TELE to control PTZ zoom.
- Focus: please use FAR and NEAR to control PTZ focus.
- Iris: Please use CLOSE and OPEN to control PTZ aperture.

You can use joystick to control lens, clockwise is to zoom out and anti-clockwise is to zoom in.

7.3.3 Preset

7.3.3.1 Preset setup

After zoom and PTZ setup, input value and click ENTER to confirm. Now you have set one preset.

7.3.3.2 GoTo preset

Move cursor to highlight GOTO. Input preset value and click ENTER. System goes to specified preset.

Preset setup > Value : 1 GOTO Remove

Preset setup > value : 1

GOTO Remove

7.3.3.3 Remove preset

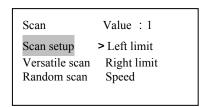
Move cursor to highlight REMOVE. Input preset value and click ENTER. Now you have removed one preset.

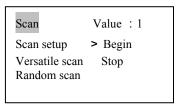
Note: Some protocols do not support remove preset function. You can modify to replace the previous one.

7.3.4 Scan

7.3.4.1 Scan setup

- Input value and then move cursor to highlight left limit. Or you can use joystick to move camera to left limit and then click ENTER.
 - Repeat procedure one to set right limit.
 - Move cursor to highlight speed. Input speed value and click ENTER to confirm.





7.3.4.2 Scan operation

- □. Use up/down to highlight scan. Input scan value and click ENTER to begin scanning.
- □、 Use left/right keys to highlight stop. Click ENTER to stop scanning.

Note: for versatile scan and random scan, you need corresponding protocols to support.

Scan Value : 1 Scan setup > start Versatile scan Stop Random scan Speed

7.3.5 Tour

7.3.5.1 Tour setup

Use up/down keys to highlight add to tour. Input value in tour group. For example, here we want to add tour point 2 and 3 in tour group 1.

- Firstly, input 1 in tour group.
- Secondly, input 2 to tour and then click ENTER.

Now you have added tour point 2 to tour group 1.

• Thirdly, input 3 to tour and then click ENTER.

Now you have added tour point 3 to tour group 1.

You can repeat the above procedures to add more tour point.

7.3.5.2 Tour operation

Speed

Please use up/down keys to highlight tour setup.

When cursor is before speed, you can input speed value.

Duration

Use left/right keys to highlight duration and then you can input interval value.

Begin touring

Use up/down to highlight tour and then input value.

Now you can click ENTER to begin tour.

Stop touring

Move cursor to highlight stop and then click ENTER. Now you have stopped touring

7.3.5.3 Remove

7.3.5.3.1 Remove tour

Move cursor to highlight remove tour and

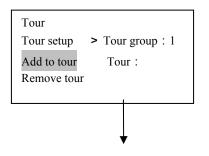
then input corresponding value.

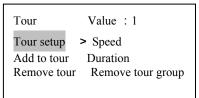
Click ENTER to delete current tour.

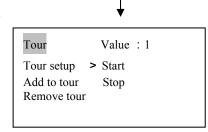
7.3.5.3.2 Remove tour point

- Move cursor to highlight tour group and then input corresponding value
- Please click Enter to confirm all the operation below is active to current tour group.
- Move cursor to highlight tour point and input corresponding value (s
- Now click ENTER to delete.

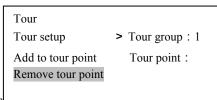
For example, you want to remove tour point 5 and 6 from tour group 2.







Tour Value : 1
Tour setup Speed
Add to tour Duration
Remove tour > Remove tour group



- Firstly, input 2 in tour group and click ENTER.
- Secondly, input 5 in tour point and click ENTER. Now you have deleted tour point 5.
- Thirdly, input 6 in tour point and click ENTER. You have deleted tour point 6.

7.3.6 Pattern

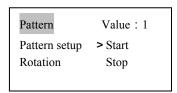
7.3.6.1 Pattern setup

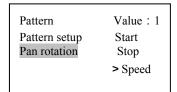
- Move cursor to highlight pattern and then input pattern value. Input value is the pattern path you want to set (maximally support five paths). Click ENTER to confirm.
- Move cursor to highlight start and then input pattern value. Now click ENTER to confirm.
- Move cursor to highlight stop. Input pattern value and click ENTER to stop pattern.

Dome will automatically memorize all the operations you have done. 7.3.6.2 Pattern operation

- Pleas use up/down keys to highlight pattern. When cursor is before start, please input pattern value and then click ENTER to begin pattering.
- Move cursor to highlight stop and then click ENTER. System stop pattern.

Pattern Value : 1 Patter setup > Start Rotation Stop





7.3.7 Pan Rotation

Move cursor to highlight speed. Input speed value (the speed you want) and click ENTER.

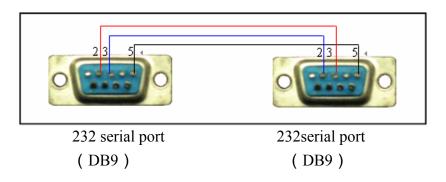
Then move cursor to highlight start and then click ENTER. Dome begins pan rotation. Move cursor to highlight stop and then click ENTER. Dome stops rotation.

8 Serial port connections

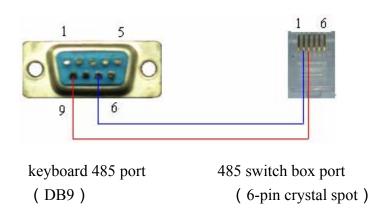
Keyboard standard accessories package includes the following items.

- One DB9
- Seven DB9
- One six-pin crystal port
- One 25-pin (DB25)
- One 485 transmission box.(includes one power source.)

8.1 RS232 serial port



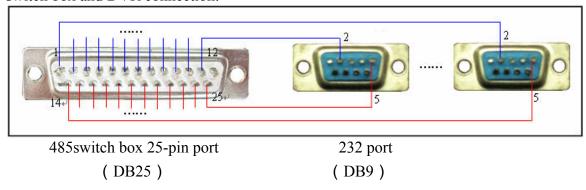
8.2 RS485 port



8.3 25-pin port and switch box connection

Connect switch 25-pin box RS232 port with DVR RS232 port. (25-pin outlet supports maximum twelve RS232 port. Switch is just for sending not for receiving. So you can use two cables: GND and TXD)

RS-485 switch box and DVR connection:



Note: you can use standard RS232 port to connect keyboard with DVR.